1   1.   A method for delivering treatment fields, comprising:
2   identifying a sequence group;
3   determining a type of radiation to be applied in a first field of said
4   sequence group, said type of radiation selected from primary photon
5   radiation and primary electron radiation;
6   configuring, based at least in part on said type of radiation, a
7   radiation therapy treatment device to deliver said first field; and
8   delivering said first field.

1   2.   The method of claim 1, wherein said sequence group includes
2   instructions defining a plurality of fields.

1   3.   The method of claim 2, wherein at least one of said plurality of fields
2   is a photon field and at least one of said plurality of fields is an electron
3   field.

1   4.   The method of claim 1, further comprising identifying, based at least
2   in part on said type of radiation, at least one interlock library, and wherein
3   said configuring further includes configuring said radiation therapy device
4   based at least in part on said at least one interlock library.

1   5.   The method of claim 1, wherein said configuring includes:
2   positioning elements of a photon collimator; and
3   positioning elements of an electron collimator.

1   6.   The method of claim 1. wherein said type of radiation is primary
2   photon radiation, and wherein said configuring further comprises:

3   partially retracting elements of an electron collimator, and
4   positioning elements of a photon collimator to define said field.

1   7.   The method of claim 1, wherein said type of radiation of primary
2   electron radiation, and wherein said configuring further comprises:
3   partially retracting elements of a photon collimator, and positioning
4   elements of said electron collimator to define said field.

1   8.   The method of claim 1, further comprising:
2   determining whether said sequence group includes a second field;
3   determining a type of radiation to be applied in said second field of
4   said sequence group, said type of radiation selected from primary photon
5   radiation and primary electron radiation;
6   configuring, based at least in part on said type of radiation, said
7   radiation therapy treatment device to deliver said second field; and
8   delivering said second field.

1   9.   The method of claim 8, wherein said second field and said first field
2   are different types.

1   10.   The method of claim 1, further comprising:
2   selecting between a clinical mode and a quality assurance mode;
3   and
4   storing data regarding said treatment sequence in a patient chart if
5   said clinical mode is selected.

1   11.   The method of claim 10, further comprising:
2   storing data regarding said treatment sequence in a quality
3   assurance chart if said quality assurance mode is selected.

1   12.   A method for automating the delivery of a plurality of treatment
2   fields, comprising:

3   identifying a sequence group defining said plurality of treatment

4   fields;

5   determining a type of radiation to be applied in a first of said

6   treatment fields, said type of radiation selected from primary photon

7   radiation and primary electron radiation;

8   configuring, based at least in part on said type of radiation, a

9   radiation therapy treatment device to deliver said treatment field; and

10   delivering said treatment field; and

11   repeating said determining, configuring and delivering until each of

12   said plurality of treatment fields of said sequence group have been

13   delivered.

1   13.   A radiation therapy device, comprising:

2   a beam source, selectively operated to generate a beam having a

3   beam type selected from a primary photon beam and a primary electron

4   beam;

5   a beam shaping device, selectively operated to shape said beam;

6   and

7   a control system coupled to said beam source and said beam

8   shaping device and operable to

9   identify a treatment sequence group having a plurality of

10   fields;

11   identify a required beam type of each field of said treatment

12   sequence group; and

13   operate said beam shaping device to shape said beam to

14   deliver each of said fields.

1   14.   The device of claim 13, wherein said beam shaping device includes

2   an electron collimator and a photon collimator.

1   15.   The device of claim 13, wherein said control system is further

2   operable to capture treatment data during delivery of each of said fields.

1   16.   The device of claim 13, wherein said control system is selectively
2   configured in one of a clinical mode and a test mode.

1   17.   An apparatus for delivering treatment fields, comprising:
2   means for identifying a sequence group;
3   means for determining a type of radiation to be applied in a first field
4   of said sequence group, said type of radiation selected from primary
5   photon radiation and primary electron radiation;
6   means for configuring, based at least in part on said type of
7   radiation, a radiation therapy treatment device to deliver said first field; and
8   means for delivering said first field.

1   18.   The apparatus of claim 17, wherein said means for configuring
2   comprise a photon collimator and an electron collimator.

1   19.   A method for testing delivery of radiation fields, comprising:
2   identifying a sequence group to be tested;
3   identifying an instruction of said sequence group, said instruction
4   defining at least a type of radiation to be applied and a configuration of
5   components of a radiation therapy device;
6   preventing a beam source of said radiation therapy device from
7   generating said radiation;
8   configuring components of said radiation therapy device as defined
9   by said instruction; and
10   repeating said identifying an instruction, said preventing, and said
11   configuring for each instruction of said sequence group.